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JP Application No. 2000-133500

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[Name of Document]        ABSTRACT

[Abstract]

[Object]    To prevent vibration disturbance in a driving direction of a vibrating body due to the unwanted rotating vibration.

[Solving Means]    Driving monitoring means (comb-shaped fixed electrode units 6 and moveable electrode units 15 in a region enclosed by a dashed line M) for detecting the vibration displacement in an X direction (driving direction) of a vibrating body 8 is provided in the barycentric region of the vibrating body 8. When the vibrating body 8 unnecessarily rotating-vibrates due to the acceleration application, since the rotating vibration center is in the barycentric region thereof, the vibration displacement in the driving direction of the barycentric region thereof due to the unwanted rotating vibration is small. Since the output signal from the driving monitoring means is used for the positive feedback control of the vibrating body 8, when noise due to the unwanted rotating vibration contained in the output signal is high, the vibration in the driving direction of the vibrating body 8 disturbs. Since the noise can be kept at low, the vibration in the driving direction of the vibrating body 8 can be stably maintained regardless of occurrence of the unwanted rotating vibration.

[Selected Figure]        Fig. 1